

## **I CLAIM:**

1. An impact generating device for an impact testing machine,  
said impact generating device comprising:

a base to be supported in the impact testing machine,

5 a hammer slidably supported above said base, and movable  
downwardly toward said base, for striking or impacting onto said  
base, and

resiliently and adjustably supporting means for resiliently  
and adjustably supporting said hammer above said base, to  
10 adjustably space said hammer from said base at selected spacing  
distances, and to adjustably determine a moving distance of said  
hammer toward said base.

2. The impact generating device as claimed in claim 1 further  
comprising at least one rod secured to said base, and extended  
15 upwardly from said base, said hammer including an apertures  
formed therein to slidably receive said at least one rod, and to guide  
said hammer to move up and down relative to said base.

3. The impact generating device as claimed in claim 2 further  
comprising a gasket engaged between said hammer and said at least  
20 one rod, and to smoothly guide said hammer to move along said at  
least one rod.

4. The impact generating device as claimed in claim 3, wherein  
said gasket includes an enlarged head engaged with said hammer, to  
position said gasket relative to said hammer.

25 5. The impact generating device as claimed in claim 2, wherein  
said resiliently and adjustably supporting means includes a bar  
secured on said at least one rod, a first resilient member coupled

between said hammer and said bar, and at least one second resilient member selectively coupled between said hammer and said bar.

6. The impact generating device as claimed in claim 5, wherein said bar includes a stop pin secured thereto, said hammer includes a stop pin secured thereto, said first and said at least one second resilient members are selectively coupled around said stop pins of said bar and said hammer, to resiliently couple said hammer to said bar.

7. The impact generating device as claimed in claim 5, wherein said at least one rod includes a pad engaged thereon and disposed between said hammer and said bar, to prevent said hammer from striking onto said bar.

8. The impact generating device as claimed in claim 1, wherein said base includes an anvil swelling provided thereon, said hammer includes a hammering block extended downwardly therefrom, and arranged above said anvil swelling, to act and impact onto said anvil swelling.

9. The impact generating device as claimed in claim 8, wherein said hammering block of said hammer includes an inverted and frustum shape.

10. The impact generating device as claimed in claim 1 further comprising spacing distance determining means for determining the spacing distance of said hammer from said base.

11. The impact generating device as claimed in claim 10, wherein said spacing distance determining means includes a beam secured to said base, and extended upwardly from said base, and a first stop pin slidably engaged in said beam, and extendible out of

said beam to selectively engage with said hammer, and to determine the spacing distance of said hammer from said base.

12. The impact generating device as claimed in claim 11,  
wherein said spacing distance determining means further includes at  
5 least one second stop pin slidably engaged in said beam, and  
selectively extendible out of said beam to selectively engage with  
said hammer, and to selectively adjust the spacing distance of said  
hammer from said base.

13. The impact generating device as claimed in claim 12  
10 further comprising a flap disposed on said hammer to selectively  
engage with said first stop pin and said at least one second stop pin.

14. The impact generating device as claimed in claim 13,  
wherein said hammer includes a seat secured thereon, and having  
said flap extended from said seat.

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